AMENDMENTS TO THE CLAIMS

(Currently amended) A method for forming a solder resist pattern comprising the

steps of:

pre-treating both sides of a double-sided printed circuit board to produce first and second

pre-treated sides on first and second sides of the printed circuit board, wherein pre-treating

includes scrubbing;

laminating a semi-cured thermosetting film on the [[both]] first and second pre-treated

sides of the printed circuit board to produce first and second semi-cured films on the first and

second sides of the printed circuit board; and

following laminating, irradiating a laser beam to the laminated semi-cured thermosetting

film first and second semi-cured films according to a solder resist mask pattern to selectively

remove the thermosetting film first and second films, the solder resist mask pattern having been

previously designed prior to irradiating.

2. (Canceled)

3. (Currently amended) A method for forming a solder resist pattern comprising the

steps of:

pre-treating both sides of a double-sided printed circuit board to produce first and second

pre-treated sides on first and second sides of the printed circuit board, wherein pre-treating

includes scrubbing;

laminating a semi-cured thermosetting film on the [[both]] first and second pre-treated

sides of the printed circuit board to produce first and second semi-cured films on the first and

second sides of the printed circuit board;

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curing the <u>first and second</u> semi-cured thermosetting film after laminating the thermosetting film films to produce first and second cured films on the first and second sides of the printed circuit board; and

following curing, irradiating a laser beam to the laminated cured thermosetting film first and second cured films according to a solder resist mask pattern to selectively remove the thermosetting film first and second films, the solder resist mask pattern having been previously designed prior to irradiating.

 (Currently amended) A method for forming a solder resist pattern comprising the steps of:

pre-treating a portion exposed from a plurality of layers constituting a multilayer printed circuit board fabricated by a buildup process to produce a pretreated portion;

laminating a semi-cured thermosetting film on the pretreated portion to produce a laminated semi-cured thermosetting film; and

following laminating, irradiating a laser beam to the laminated semi-cured thermosetting film according to a solder resist mask pattern to selectively remove the thermosetting film.

- (Original) The method for forming a solder resist pattern according to claim 4, wherein the pretreatment includes scrubbing.
- (Currently amended) A method for forming a solder resist pattern comprising the steps of:

pre-treating a portion exposed from a plurality of layers constituting a multilayer printed circuit board fabricated by <u>a</u> buildup process to <u>produce a pretreated portion</u>;

laminating a semi-cured thermosetting film on the pretreated portion to produce a laminated semi-cured thermosetting film; curing the <u>laminated semi-cured</u> thermosetting film <del>after laminating the thermosetting</del>

film to produce a laminated cured thermosetting film; and

following euring, irradiating a laser beam to the laminated cured thermosetting film according to a solder resist mask pattern to selectively remove the laminated cured thermosetting

film.

(Currently amended) A method for forming a solder resist pattern comprising the

steps of:

pre-treating a portion exposed from a plurality of layers constituting a multilayer printed

circuit board fabricated in a parallel manner to produce a pretreated portion;

laminating a semi-cured thermosetting film on the pretreated portion to produce a

laminated semi-cured thermosetting film; and

following laminating, irradiating a laser beam to the laminated semi-cured thermosetting

film according to a solder resist mask pattern to selectively remove the thermosetting film.

8. (Original) The method for forming a solder resist pattern according to claim 7,

wherein the pre-treatment includes scrubbing.

9. (Currently amended) A method for forming a solder resist pattern comprising the

steps of:

pre-treating a portion exposed from a plurality of layers constituting a multilayer printed

circuit board fabricated in a parallel manner to produce a pretreated portion;

laminating a semi-cured thermosetting film on the pretreated portion to produce a

laminated semi-cured thermosetting film;

curing the <u>laminated semi-cured</u> thermosetting film <del>after laminating the thermosetting</del>

film to produce a laminated cured thermosetting film; and

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according to a solder resist mask pattern to selectively remove the <u>laminated cured</u> thermosetting

film.

10. (Previously presented) The method of claim 1, wherein the laser is a yttrium

aluminum garnet laser, excimer laser, or carbon dioxide laser.

11. (Previously presented) The method of claim 4, wherein the laser is a yttrium

aluminum garnet laser, excimer laser, or carbon dioxide laser.

12. (Previously presented) The method of claim 7, wherein the laser is a yttrium

aluminum garnet laser, excimer laser, or carbon dioxide laser.

13. (Previously presented) A method for forming a solder resist pattern, comprising:

pre-treating both sides of a double-sided printed circuit board to provide pre-treated sides

of a printed circuit board;

applying a semi-cured thermosetting film on the pre-treated sides of the printed circuit

board to provide a thermoset film on the printed circuit board; and

following applying the semi-cured thermosetting film, irradiating a laser beam on the

semi-cured thermoset film to selectively remove the thermoset film to provide a solder resist

pattern.

14. (Previously presented) The method of claim 13, wherein pre-treating includes

scrubbing.

15. (Previously presented) A method for forming a solder resist pattern, comprising:

pre-treating both sides of a double-sided printed circuit board to provide pre-treated sides

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of a printed circuit board;

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Seattle, Washington 98101 206.682.8100 applying a semi-cured thermosetting film on the pre-treated sides of the printed circuit

board to provide a thermoset film on the printed circuit board;

curing the thermosetting film to provide a cured thermoset film; and

following curing, irradiating a laser beam on the cured thermoset film to selectively

remove the thermoset film to provide a solder resist pattern.

16-21. (Canceled)

22. (Previously presented) A method for forming a solder resist pattern, comprising:

obtaining a substrate with an exposed circuit pattern on the surface thereof;

treating the substrate and the exposed circuit pattern to provide a treated circuit pattern;

applying a semi-cured thermosetting film to the substrate to cover the exposed and

treated circuit pattern to provide a thermosetting film as the outermost layer; and

following applying the thermosetting film, removing the semi-cured thermosetting film in

selected areas with a laser beam to produce a substrate having a solder resist mask pattern.

23. (Currently amended) The method of [[C]]claim 22, comprising obtaining two of

the substrates having a solder resist mask and placing one or more insulating layers between said

two substrates so that the solder resist mask patterns of said two substrates are the outermost layers, then pressing the two substrates and one or more insulating layers to fabricate a

multi-layer printed circuit board.

24. (Currently amended) The method of [[C]]claim 22, wherein the substrate

comprises a double-sided printed circuit board having circuit patterns on both outermost sides of

the printed circuit board and the thermosetting film is applied to cover the circuit patterns on

both outermost surfaces and the thermosetting film on both sides is irradiated with a laser beam

LAW OFFICES OF CHRISTENSEN O'CONNOR JOHNSON KINDNESS<sup>PLE</sup> 1420 Fifth Avenue Suite 2800 Seattle, Washington 98101 206.682,8100 to provide a solder resist mask pattern on both outermost sides of the double-sided printed circuit board.